

Cement Test CertificateFinal

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ABN 22 009 593 515

Type LH Low Heat Cement

Test Certificate Number: 200496

Product Certified:

Produced At: Northern Cement, Darwin Plant, NT

 Sample Code:
 B07ce24

 Sample Date:
 28/10/2020

| Nominal Blend | Requirements | Result |
|---|--------------|--------|
| Clinker | | 30% |
| Ground Granulated Iron Blast-Furnace Slag | | 65% |
| Mineral Addition | Max 7.5 % | Nil |
| Calcium Sulphate | | <5 % |
| Minor Additional Constituents | Max 5 % | Nil |

| Reportable Property | Test Method | Requirements of AS3972 | Result |
|---|-------------|------------------------|-----------|
| 3 Day Strength | AS2350.11 | N/R | 15.1 MPa |
| 7 Day Strength | AS2350.11 | Min 10.0 MPa | 30.4 MPa |
| 28 Day Strength | AS2350.11 | Min 30.0 MPa | 50.8 MPa |
| Initial Set Time | AS2350.4 | Min 45 min | 165 min |
| Final Set Time | AS2350.4 | Max 600 min | 255 min |
| Soundness | AS2350.5 | Max 5 mm | 2 mm |
| Sulfuric Anhydride content (SO ₃) | AS3583.8 | Max 3.5 % | 3.0 % |
| Chloride Ion | AS3583.13 | Max 0.10 % | 0.007 % |
| Peak Temp Rise | AS2350.7 | Max 23 °C | 21.3 °C |
| Other Properties | | | |
| SiO ₂ | AS2350.2 | N/R | 29.3 % |
| AI_2O_3 | AS2350.2 | N/R | 10.8 % |
| Fe ₂ O ₃ | AS2350.2 | N/R | 1.5 % |
| CaO | AS2350.2 | N/R | 48.9 % |
| MgO | AS2350.2 | N/R | 4.3 % |
| Na ₂ O Equivalent | AS2350.2 | N/R | 0.5 % |
| Loss on Ignition | AS2350.2 | N/R | 0.6 % |
| Fineness Index | AS2350.8 | N/R | 395 m²/kg |
| Normal Consistency | AS2350.3 | N/R | 33.4 % |

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REMARKS

These test result apply specifically to the sample as received at the Adelaide Brighton Cement Birkenhead Laboratory (Accreditation number: 252), 62 Elder Rd Birkenhead SA 5015.

This despatch grab sample complies to the requirements of AS3972:2010, Type LH Cement.

N/R = No Requirement



Accredited for compliance with ISO/IEC 17025 - Testing. The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Approved Signatory
M. Wythe

Issue Date: 11/12/2020